

**GENOTYPING BY MASS SPECTROMETRIC ANALYSIS
OF SHORT DNA FRAGMENTS**

ABSTRACT OF THE DISCLOSURE

Genotyping can be accomplished by analysis of short, defined DNA segments using electrospray ionization mass spectrometry. The DNA segments are produced using specially designed primers to amplify a cDNA or genomic DNA template. The primers contain a recognition site for a restriction endonuclease. The amplification products are digested with the restriction endonuclease. Single nucleotide polymorphisms can be detected rapidly and reliably.